

NEWS RELEASE

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SUBJECT: Elliott Group Introduces YR Steam Turbine Wireless Sensor

Jeannette, PA – October 14, 2021 – Elliott Group has released a new turbine wireless sensor specifically designed for Elliott single-stage (YR) steam turbines. The sensor allows plants to modernize their turbine monitoring capabilities at a fraction of the cost of conventional instrumentation.

The YR turbine wireless sensor collects and transmits vibration and temperature data that can be analyzed in real time from a designated PC in a control room or set location. If the data reveals abnormal activity or off-spec operation, equipment operators can determine the root cause and resolve the issue before it becomes more serious or leads to equipment failure.

The wireless sensor is easily installed on turbine bearing housings using Elliott bearing housing adapters. A communications gateway is mounted on the factory floor near the equipment being monitored, and monitoring software is provided for PC installation. The sensor collects data on demand or in timed intervals, and transmits it securely from the gateway to the designated PC via Wi-Fi or a hardwired Ethernet cable.

“Currently in many plants, vibration technicians use a handheld vibration monitor to check equipment vibration weekly or less often. If they find issues, the technicians check the equipment more frequently until it is shut down for repair. The wireless sensor enables more regular checking of machine health and a timelier shutdown if an issue occurs,” said Elliott Industrial Products Engineering Manager William Pacelli.

The sensor can be installed on new and existing Elliott YR turbines, including in harsh environments. For non-Elliott equipment, Elliott can work with plant personnel to design the correct adapter.

About Elliott Group

Elliott Group designs, manufactures, and services technically advanced centrifugal and axial compressors, steam turbines, power recovery expanders, and cryogenic pumps and expanders used in the petrochemical, refining, oil & gas, and liquefied gas industries, as well as in power applications. The company employs 2600 people in 31 locations around the world. Elliott Group is a wholly owned subsidiary of Ebara Corporation, a major industrial conglomerate headquartered in Tokyo, Japan. Ebara employs 16,000 people and has sales of US \$4.5 billion.